ECP 303 - Multi-System Search Tool Connector

Change Log

Date	*Slide*	*Description*
28Aug2009	4	Updated with current POCs
28Aug2009	6 - 10	Updated to be consistent with new approach.
28Aug2009	13	Updated to be consistent with new approach.
28Aug2009	26 - 29	Updated to be consistent with new approach.
22Sept2009		Updated to reflect most recent requirements
24Sept2009	7,9-12	Updated to reflect most recent requirements

Part 1

General Information

Title of Change Request:

Metadata and document retrieval interfaces for MSST

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Principal Staff Assistant:

Problem Description

What business problem exists, and what are the effects of this problem?

- **Problem Statement**
  - **Recent USMC traceability testing in preparation of audit assertion yielded only 12% of documents anticipated from electronic storage tools; and only 46% of total documents were found**
  - **Problem extends to contract reconciliation efforts, problem disbursement research, and other research efforts**
- **Analysis**
  - **Supporting data/documents were not necessarily missing but were scattered through disparate systems (EDA, EDM/EFR, VPS, WAWF, CEDMS, etc.)**
  - **Efforts to retrieve documents were hindered by requirements for access to and knowledge of multiple systems**
  - **In "As Is" environment users must access multiple systems, retrieve discreet documents and act individually on each, resulting in considerable manual effort**

High Level Requirements – 9/22/2009

The High-Level EDA requirements are:

- Allow MSST to extract index data and pointers to populate internal search tables. MSST requires an interface of EDA metadata be provided on a daily basis. A baseline of all metadata must be provided as well as daily updates of newly added metadata, changed metadata and deleted metadata.
- Based on user selected items, MSST must be able to link to documents from EDA to present to the MSST user.

Detailed Requirements – 9/22/2009

Retrieve Index Data from EDA

- MSST will have an interface with EDA to retrieve index data.
- MSST will receive one CSV index data file for each document type in EDA
  - Contracts (existing feed) 24,349,232 files
  - Property GBL (new) 4,744,254 files
  - Freight GBL (new) 10,278,492 files
  - Non-Automated GBL (new) 172,075 files
  - Government Transportation Costs (new) 58,037 files
  - Elect 110 (new) 8,661,132 files
- EDA will send an initial copy of the index data to MSST
- EDA will send index data daily
- EDA will send changed index data daily
- MSST will handle deletes two ways
  - For those documents that already have logic for deletion in EDA MSST will utilize the same logic
    - Non Automated GBLs (NA GBL) are deleted 18 months from date loaded into EDA
    - Government Transfer Requests are deleted 30 months from date loaded into EDA
  - For those documents that are not available, MSST users will call the help desk to determine if they were deleted

Detailed Requiremets – 9/22/2009

Retrieve Documents from EDA

- MSST users will have an account in EDA with the appropriate access to documents
- MSST will link to the document in EDA
- MSST users will view the document in EDA

Benefits

- **Summarize the benefits of the capabilities achieved by this ECP:**
  - The MSST project lends support to audit readiness through increased ability to rapidly locate supporting documentation for financial transactions. Further this tool will accelerate day-to-day reconciliation operations, facilitates audits of the DoD Inspector General, improves customer service response and other tasks requiring rapid document retrieval. Additionally, MSST will:
    - Provide “one-stop shopping” solution for data/document research and retrieval
    - Significantly reduces time, effort and knowledge required to retrieve supporting documentation
    - Supports Financial Improvement and Audit Readiness (FIAR) and other audit efforts
    - Supports DoD Directive 8320.02, “Data Sharing in a Net-Centric Department of Defense”
  - The metadata and document retrieval interface to EDA is essential to achieving these benefits in MSST.

Risks and Impacts

- **Summarize the risks and impacts of the capabilities achieved by this ECP:**

Number	Risk Description	Probability of Occurrence	Consequences
1	Coordinating with the release cycles of repository system if system modifications are required	Medium	Delayed implementation due to inability to synchronize schedules with document repositories
2	Inability to apply native system security when retrieving documents	Low	Show Stopper
3	Index data is insufficient to provide intelligent linkages between data tables	Low	Reduced system functionality (inability to conduct a cascade search for related documents)
4	Interface performance is sub-par	Medium	Impacts the ability to complete transfer of index data to MSST during off-peak hours; could impact production performance
5	Potential impact on the performance of EDA	Low	Document retrieval from EDA through MSST could impact production performance

Link To Mission

- **How does this relate to the enterprise business plan?**
  - Common Supplier Engagement - MSST as a whole supports the spirit of the CSE in that it standardizes document search across multiple repositories
  - Federation Strategy - MSST provides a single point for obtaining data/documentation from disparate sources which supports the ETPs Federation Strategy
  - Financial Visibility (FV) - MSST contributes to the FV strategic objective to achieve audit readiness and prepare auditable financial statements.
    - The primary catalyst for the MSST initiative was the recent failure of the USMC to obtain source documentation to support accounting transactions during recent traceability exercise to prove audit readiness.
    - The MSST project lends support to audit readiness through increased ability to rapidly locate supporting documentation for financial transactions. Further this tool accelerates day-to-day reconciliation operations, facilitates audits of the DoD Inspector General, improves customer service response and other tasks requiring rapid document retrieval.

New Functionality/Enhancements

- **Does this ECP achieve new functionality or is it an enhancement?**
  - Enhancement of existing capabilities.
- **Is this ECP replacing existing capabilities?**
  - No
- **Will this new functionality or enhancement require training for end users? If yes, please explain**
  - The new functionality will not impact EDA users

System Impacts

- **Is this ECP to satisfy a system failure issue?**
  - **No**
- **Is this ECP to satisfy a system security issue?**
  - **No**
- **Does this ECP address a data integrity issue?**
  - **This ECP does not address data integrity issues within EDA, however, it will ultimately assist in identifying and resolving data integrity issues in other systems using the information housed in EDA**

Alternatives

- **Could this problem be solved by changing your business process?**
  - **Changes to business processes are insufficient to address the problems that will be resolved through the Multi-System Search Tool (MSST)**
  - **MSST cannot stand alone without the connectors to EDA and other systems**

Part 2

Data Elements

- **Are there any data elements being created, modified, or deleted?**
  - **No**

Dependencies

- **Is the ECP related to any other ECP(s)?**
  - **This ECP is not related to other ECPs within EDA**
- **Is this ECP form dependent on any other business partner or component level milestone(s)?**
  - **The changes proposed in this ECP will be utilized by the Multi-System Search Tool.**

Dependencies Cont.

- **Is this ECP dependant on any other resources?**
  - **No**

- **Are there any related IRB assertions associated with this ECP?**
  - **No**

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BEA

- **Is this requirement necessary to reach BEA compliance?**
  - **N/A**

- **Is this requirement in compliance with the BEA process flow capabilities and business rules?**
  - **N/A**

Users Affected

- **What Components are affected by this change?**
  - Enterprise impact, with USMC as initial target
- **Will this requirement result in a volume increase in users or transactions?**
  - There will be no impact to the volume of transactions within EDA
  - There may be an undetermined reduction in number or frequency of users accessing EDA directly once MSST is implemented

Strategy

Is this requirement part of the DoD strategy in the Enterprise Transition Plan?

- **Federation Strategy -** MSST provides a single point for obtaining data/documentation from disparate sources which supports the ETPs Federation Strategy and could potentially be published as a discoverable service within the DoD Global Information Grid
- **Financial Visibility (FV) -** MSST contributes to the FV strategic objective to achieve audit readiness and prepare auditable financial statements.
  - The primary catalyst for the MSST initiative was the recent failure of the USMC to obtain source documentation to support accounting transactions during recent traceability exercise to prove audit readiness.
  - The MSST project lends support to audit readiness through increased ability to rapidly locate supporting documentation for financial transactions. Further this tool accelerates day-to-day reconciliation operations, facilitates audits of the DoD Inspector General, improves customer service response and other tasks requiring rapid document retrieval.
- **Common Supplier Engagement (CSE) -** MSST supports the spirit of the CSE in that it provides a standard tool for document search across multiple repositories

Preclusions

- **Are there any other systems that could be changed that would preclude the need for this requirement?**
  - **No**

- **Are there any policy changes that would preclude the need for this requirement?**
  - **No**

LRPs

- **Are there any Federal of DoD level statutes, regulations, or policy mandates requiring the implementation of this requirement?**
  - **No**

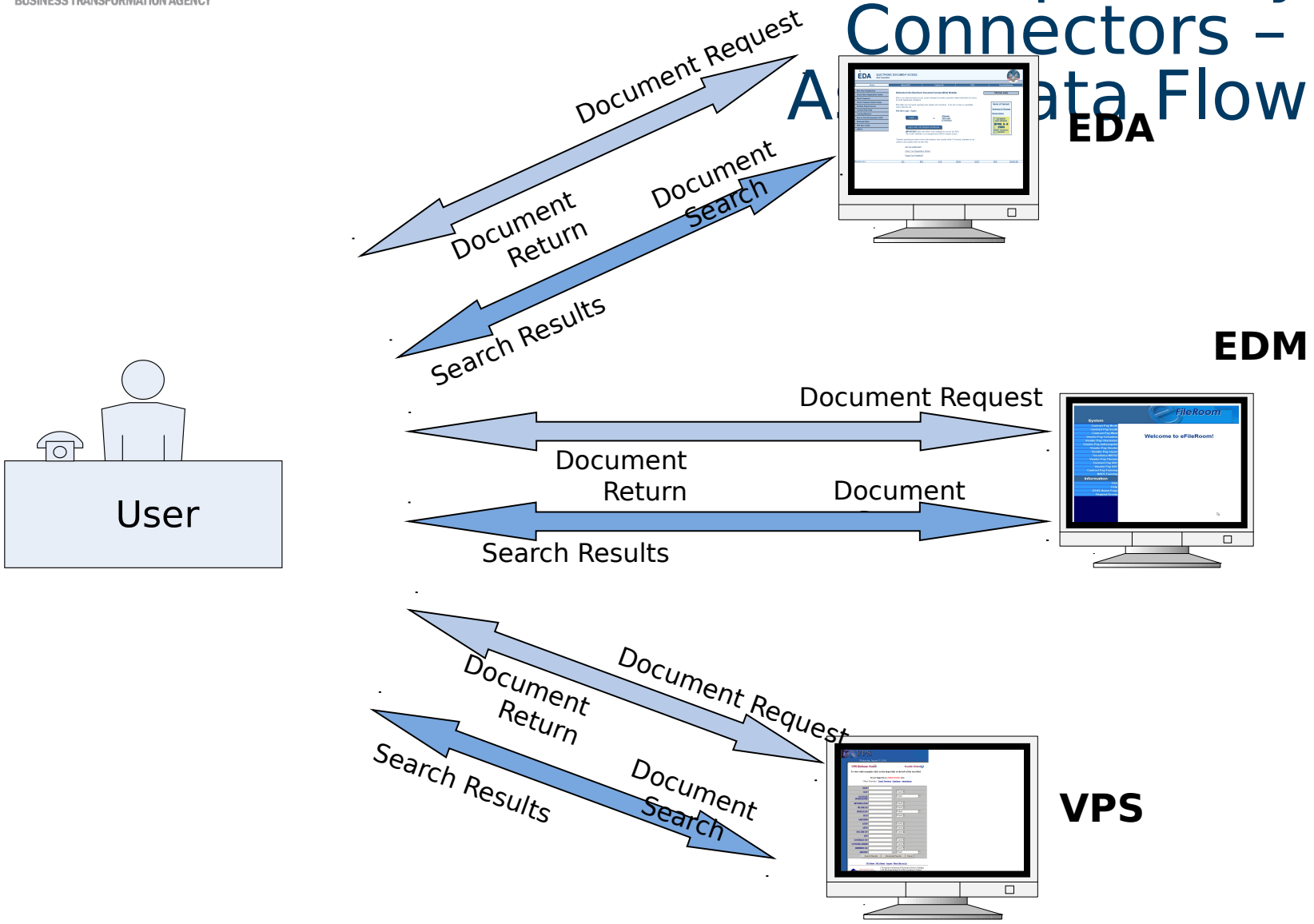
DLMS

- **Does this change require submission of a proposed change to the Defense Logistics Management System (DLMS) in order to become or maintain DLMS compliance?**
  - **No**

As Is Process Flow

- **Attach an As Is Process Flow Diagram**
  - **See attached**

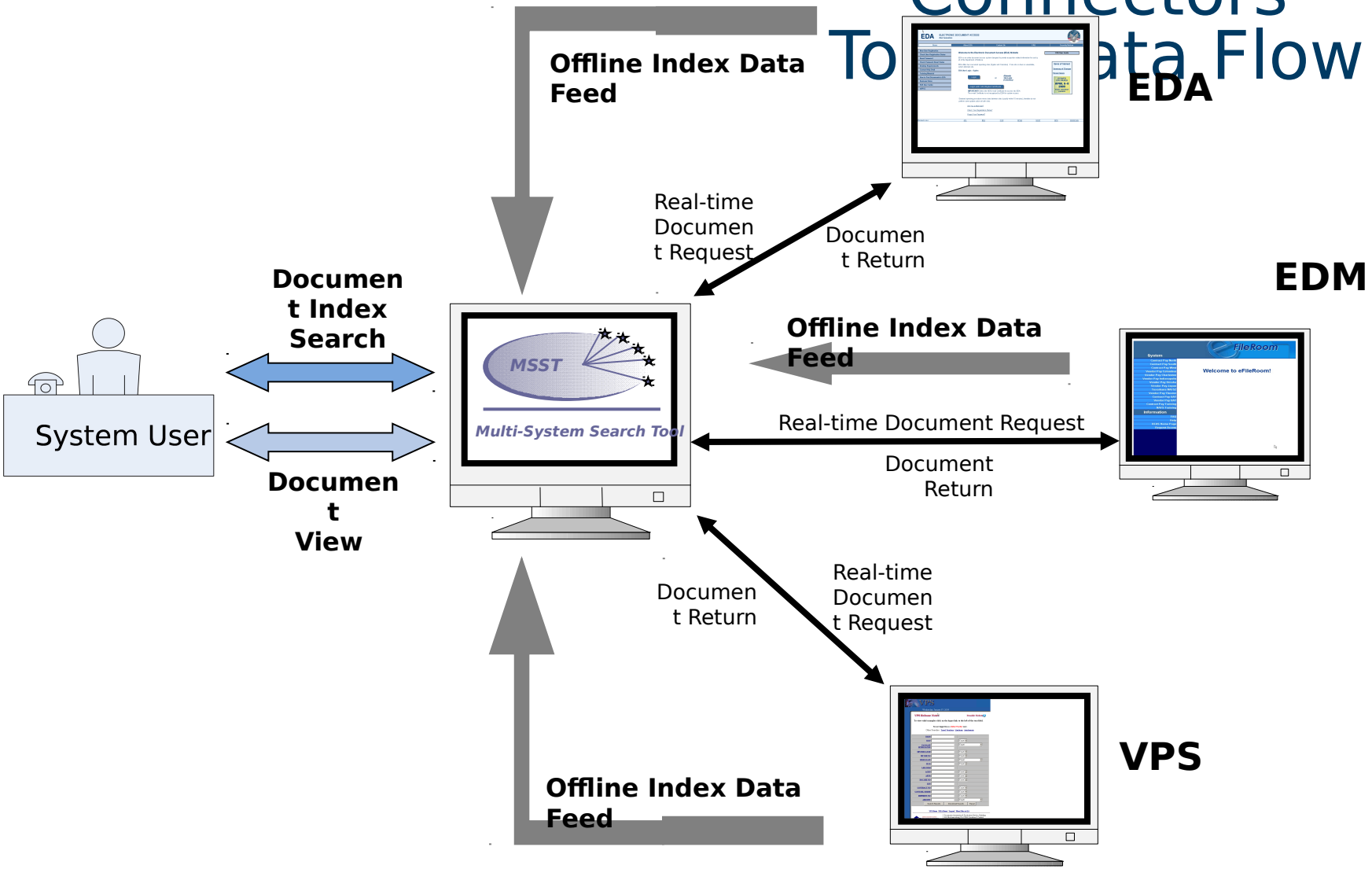
Document Repository Connectors – A[illegible]ata Flow



To Be Process Flow

- **Attach a To Be Process Flow Diagram**
  - **segment attached**

Document Repository Connectors – To[illegible]ata Flow



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Backup

Solution/Requirement – 8/28/2009

Provide a description of the solution

- **DFAS is developing the Multi-System Search Tool (MSST), which will:**
  - Enable users to search multiple systems simultaneously
  - Return a list of all related documents
  - Allow user to select desired documents
  - View and print documents
  - Allow the originals system to maintain audit trails.
- **EDA is one of the repositories included in the initial scope of the tool.**
- **The High-Level EDA requirements are:**
  - Allow MSST to extract index data and pointers to populate internal search tables. MSST requires an interface of EDA metadata be provided on a daily basis. A baseline of all metadata must be provided as well as daily updates of newly added metadata and changed metadata
  - Based on user selected items, MSST must be able to retrieve documents from EDA to present to the MSST user.

Solution/Requirement – 8/28/2009

Detailed EDA Requirements:

Retrieve Index Data from EDA

- MSST will have an interface with EDA to retrieve index data.
- MSST wishes to leverage the knowledge of the member systems and therefore requests that the included index information be determined by EDA functional representatives

Solution/Requirement – 8/28/2009

Retrieve Index Data from EDA **(continued):**

- MSST expects to receive new index data daily from EDA
- MSST expects to receive changed index data from EDA daily

Solution/Requirement – 8/28/2009

Retrieve Documents from EDA

- MSST will utilize an EDA interface to request and receive a document
- The interface will be similar to the existing edm_interface.displayContract EDA interface